

INTERNATIONAL SEARCH REPORT

Internat	Application No
PCT/US	03/16460

A. CLASSIFICATION OF SUBJECT MATTER		
IPC 7	A61F2/80	A61F2/78
A61H9/00		

According to International Patent Classification (IPC) or to both national classification and IPC

B. FIELDS SEARCHED

Minimum documentation searched (classification system followed by classification symbols)
IPC 7 A61F A61H

Documentation searched other than minimum documentation to the extent that such documents are included in the fields searched

Electronic data base consulted during the international search (name of data base and, where practical, search terms used)

EPO-Internal

C. DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
X	US 5 658 353 A (LAYTON HARRY W) 19 August 1997 (1997-08-19) column 4, line 38 -column 5, line 63 ---	1,2
Y	US 6 231 616 B1 (HELMY NASHAT N) 15 May 2001 (2001-05-15) column 7, line 7 -column 8, line 11 ---	3,5, 10-12, 14,15
Y	US 4 738 249 A (LINMAN E KELLY ET AL) 19 April 1988 (1988-04-19) column 9, line 8 -column 12, line 24 ---	3,10,12
Y	US 4 215 679 A (RUSTIN JESSE L) 5 August 1980 (1980-08-05) column 1, line 64 -column 2, line 53 ---	5 11 -/-

Further documents are listed in the continuation of box C.

Patent family members are listed in annex

* Special categories of cited documents:

- *A* document defining the general state of the art which is not considered to be of particular relevance
- *E* earlier document but published on or after the international filing date
- *L* document which may throw doubts on priority, claim(s) or which is cited to establish the publication date of another citation or other special reason (as specified)
- *O* document referring to an oral disclosure, use, exhibition or other means
- *P* document published prior to the international filing date but later than the priority date claimed

T later document published after the international filing date or priority date and not in conflict with the application but cited to understand the principle or theory underlying the invention

X document of particular relevance; the claimed invention cannot be considered novel or cannot be considered to involve an inventive step when the document is taken alone
Y document of particular relevance; the claimed invention cannot be considered to involve an inventive step when the document is combined with one or more other such documents, such combination being obvious to a person skilled in the art

A document member of the same patent family

Date of the actual completion of the international search

29 September 2003

Date of mailing of the international search report

13/10/2003

Name and mailing address of the ISA

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C.(Continuation) DOCUMENTS CONSIDERED TO BE RELEVANT

Category *	Citation of document, with indication, where appropriate, of the relevant passages	Relevant to claim No.
Y	US 2 464 443 A (GANOE CARRIE M ET AL) 15 March 1949 (1949-03-15) column 2, line 3 – line 50 -----	14,15
A	US 6 368 357 B1 (SCHON LEW CHARLES ET AL) 9 April 2002 (2002-04-09) column 3, line 17 – line 34 -----	1-16
A	US 2001/005798 A1 (CASPERSONS CARL A) 28 June 2001 (2001-06-28) the whole document -----	1-16

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national application No.
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Box I Observations where certain claims were found unsearchable (Continuation of Item 1 of first sheet)

This International Search Report has not been established in respect of certain claims under Article 17(2)(a) for the following reasons:

1. Claims Nos.: 17-26 because they relate to subject matter not required to be searched by this Authority, namely:
Rule 39.1(iv) PCT - Method for treatment of the human or animal body by therapy
2. Claims Nos.: because they relate to parts of the International Application that do not comply with the prescribed requirements to such an extent that no meaningful International Search can be carried out, specifically:
3. Claims Nos.: because they are dependent claims and are not drafted in accordance with the second and third sentences of Rule 6.4(a).

Box II Observations where unity of invention is lacking (Continuation of Item 2 of first sheet)

This International Searching Authority found multiple inventions in this international application, as follows:

1. As all required additional search fees were timely paid by the applicant, this International Search Report covers all searchable claims.
2. As all searchable claims could be searched without effort justifying an additional fee, this Authority did not invite payment of any additional fee.
3. As only some of the required additional search fees were timely paid by the applicant, this International Search Report covers only those claims for which fees were paid, specifically claims Nos.:
4. No required additional search fees were timely paid by the applicant. Consequently, this International Search Report is restricted to the invention first mentioned in the claims; it is covered by claims Nos.:

Remark on Protest

- The additional search fees were accompanied by the applicant's protest.
 No protest accompanied the payment of additional search fees.

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Internal PCT/us	Application No 03/16460
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Patent document cited in search report		Publication date		Patent family member(s)		Publication date
US 5658353	A	19-08-1997	NONE			
US 6231616	B1	15-05-2001	US CA EP	5888230 A 2233702 A1 0870485 A2	30-03-1999 01-10-1998 14-10-1998	
US 4738249	A	19-04-1988	NONE			
US 4215679	A	05-08-1980	NONE			
US 2464443	A	15-03-1949	NONE			
US 6368357	B1	09-04-2002	AU CA EP WO	6520499 A 2347517 A1 1121076 A1 0023016 A1	08-05-2000 27-04-2000 08-08-2001 27-04-2000	
US 2001005798	A1	28-06-2001	US US WO US AU WO AU WO US US AU WO US AU CA EP WO	6508842 B1 6554868 B1 02065958 A2 2002091449 A1 2631301 A 0154631 A1 5021700 A 0074611 A2 2002087215 A1 2001016781 A1 5294301 A 2406974 A1 1265564 A2 0170147 A2	21-01-2003 29-04-2003 29-08-2002 11-07-2002 07-08-2001 02-08-2001 28-12-2000 14-12-2000 04-07-2002 23-08-2001 03-10-2001 27-09-2001 18-12-2002 27-09-2001	